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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,970	11/26/2003		Charles C. Frost	FRO01 P-393	9509
28101	7590	06/16/2004		EXAM	IINER
		ONER, LINN AN	MCCARRY.	MCCARRY JR, ROBERT J	
2851 CHARLEVOIX DRIVE, S.E. P.O. BOX 888695				ART UNIT	PAPER NUMBER
		II 49588-8695		3617	

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>				
	Application N .	Applicant(s)				
	10/723,970	FROST, CHARLES C.				
Office Action Summary	Examin r	Art Unit				
	Robert J. McCarry, Jr.	3617				
The MAILING DATE of this communication appearing for Reply	ppears on the cover sh et with the c	correspond nce address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu. Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be ting the statutory minimum of thirty (30) day downward apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u></u>					
2a) This action is FINAL . 2b) ⊠ Th						
•	,—					
closed in accordance with the practice under	[•] Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-38 is/are pending in the application	on.					
4a) Of the above claim(s) is/are withdr	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) <u>28-38</u> is/are allowed.						
6) Claim(s) <u>1-10,13-16 and 19</u> is/are rejected.						
7) Claim(s) <u>11,12,17,18 and 20-27</u> is/are object						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	ner.					
10)☐ The drawing(s) filed on is/are: a)☐ ad						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the	· · · · · · · · · · · · · · · · · · ·					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig	gn priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority docume	nts have been received.					
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
AMoshor and a						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	(8) 5) ☐ Notice of Informal I 6) ☐ Other:	Patent Application (PTO-152)				
S. Patent and Trademark Office	,					

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "20" has been used to designate both a bolt and "other faster" as stated in the specification. Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

The drawings are objected to under 37 CFR 1.83(a) because they fail to show "a flared portion" of the support arm numbered 18a' as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the

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replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities: Part number 217a shown in figure 5 is not discussed in the specification.

Appropriate correction is required.

Claim Objections

Claims 17 and 20 are objected to because of the following informalities: Both claims recite "... at least one of said hub portion, said wheel portion and another sliding member comprises another sliding member..." The Examiner understands in light of the specification and drawings that the device has two sliding members. However, the claims stated above should be rewritten to say, "... said wheel portion and said sliding member..." to show that the originally recited sliding member is mated with a second sliding member, for clarity.

Appropriate correction is required.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7, 13-16 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by McMullen (US 5,398,618).

McMullen discloses a wheel assembly comprised of a hub portion 23 a wheel portion 11 positioned around the hub 23 and a sliding member 19 positioned around the hub 23 and facilitates the movement of the wheel 11 around the hub 23. The sliding member has a curved radial projection that mates with the wheel 11 and the hub 23. The projection is best shown in figure 2 and as stated in column 6 line 58 to column 7 line 2, the sliding member is made of a composite material. Sliding member 19 has upward projecting walls on either side adjacent to upward extending walls of the hub 23. The wheel 11 has niches to allow a mating fit with the sliding member 19. While the sliding member 19 has outwardly extending walls to mate with wheel 11 the entire sliding member is mated with the hub 23 and sits within the outer walls of the hub 23.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 7, 8 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over McMullen in view of Vanmeenen et al (US 6,241,082).

McMullen discloses a wheel assembly as described above but does not show the wheel to have an insert. Vanmeenen et al discloses a wheel assembly wherein the wheel 8 has a composite insert mated with the inner surface of the wheel as shown in figures 4 and 5. It would have been obvious to one of ordinary skill in the art to have applied an insert, like that of Vanmeenen et al, to a wheel assembly like that of McMullen in order to give the wheel more structural stability.

Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over McMullen. Claim 9 recites that the sliding member be of a metallic material. It would have been an obvious design choice to one of ordinary skill to use metal instead of plastic. As stated in McMullen column 6 lines 53-57, the bearings can be made of any material so long as they have a low coefficient of friction and have long life and low maintenance characteristics.

Allowable Subject Matter

Claims 11, 12, 17, 18 and 20-27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 28-38 are allowed.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wendt et al (US 4,993,328) and Hoffman (US 5,156,533) both show types of wheel assemblies for overhead trolleys.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. McCarry, Jr. whose telephone number is (703) 305-0581. The examiner can normally be reached on Monday through Friday 8:00am to 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, S. Joseph Morano can be reached on (703) 308-0230. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RJM

June 9, 2004

ROBERT J. McCARRY, JR.
PATENT EXAMINER
36.7

S. JOSEPH MORANO

SUPERVISOR TECHNO MINER 300

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